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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

REQUEST FOR CORRECTED PATENT OR CERTIFICATE OF CORRECTION BASED ON PATENT OFFICE MISTAKE PURSUANT TO 35 U.S.C. §254

APPLICANT(S):

Heinrich Jürgensen

CONFIRMATION NO.: 5122

SERIAL NO.:

09/786,742

GROUP ART UNIT: 2828

FILED:

September 14, 2001

EXAMINER: James A. Menefee

PATENT NO.:

6.888.853 B

ISSUED: May 3, 2005

TITLE:

"LASER RADIATION SOURCE"

ATTN: Certificate of Correction Branch

Commissioner of Patents P. O. Box 1450 Alexandria, VA 22313-1450 Certificate
MAY 2 4 2005

of Correction

SIR:

Pursuant to 35 U.S.C. §254 and MPEP 1480, in order to correct printing errors, Applicant submits herewith for U.S. Patent 6,888,853 an attached Certificate of Correction, which could also be the basis for a corrected patent, based on the discretion of the Patent Office.

On the cover sheet of the patent, a substantial number of U.S. Patent documents, foreign patent documents, and other publications cited by Applicant before the close of prosecution were not listed in the prior art section.

Pursuant to MPEP 1480.01 – Expedited Issuance of Certificates of Correction – Error Attributable to the U. S. Patent Office – please find enclosed herewith as Exhibit A the Examiner's listing on Form PTO-1449 dated January 14, 2003 of the references considered, but which were mistakenly not indicated on the face of the printed '853 patent. Although the references on page 1 of 1 dated January 13 were

listed (Exhibit A), the references considered by the Examiner on January 14, 2003 were not included on the cover sheet of the '853 patent.

In the printed drawings, some but not all of the legend translations were shown in the printed patent drawings. This error is corrected by the legends added in the attached Certificate of Correction

As shown by the attached Drawing Correction Letter (Exhibit B) referenced in Applicant's Preliminary Amendment deposited with the U.S. Post Office by Express Mail on March 8, 2001 (Exhibit C) the translation of the German legends on the drawing figures was made. The formal drawings with these changes were sent to the U.S. Patent Office on September 14, 2001 as approved by the Examiner in the Office Action of January 30, 2003 (Exhibit D), except for mis-spellings in Figs 1 and 8). The Examiner also requested that Figures 2 and 2a be labeled "Prior Art". This was done in accordance with new formal drawings sent to the Patent Office, the receipt of which was confirmed by the Examiner in the Office Action of August 13, 2003 (Exhibit E).

It is noted that the Patent Office has the discretion, pursuant to 35 U.S.C. §254 (MPEP 1480), to issue a corrected patent without charge in lieu of and with like effect as a Certificate of Correction. Because of the numerous printing errors by the Patent Office, the Patent Office should consider a corrected patent in this instance.

If the Examiner has any questions concerning this Certificate of Correction, a telephone interview is suggested with Applicant's attorney.

For convenience, a copy of the cover sheet and all drawing figures for printed U.S. Patent 6,888,853 are enclosed.

Submitted by,

(Reg. 27,841)

BRETT A. VALIQUET
SCHIFF HARDIN LLP
Patent Department
6600 Sears Tower
Chicago, Illinois 60606
Telephone: 312/258-5786

Attorneys for Applicant(s). **CUSTOMER NO. 26574**

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service as First Class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA. 22313-1450 on May 18, 2005.

BRETT A. VALIQUET

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Notice of References Cited

Application/Control No. 09/786,742

Applicant(s)/Patent Under Reexamination JURGENSEN, HEINRICH

Examiner James A. Menefee Art Unit 2828

Page 1 of 1

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*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

U.S. Patent and Trademark Office PTO-892 (Rev. 01-2001)

Notice of References Cited

Part of Paper No. 9

Part #5

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| Examiner's | [. | Document Number | Date | Name | Class | Subclass | Filing If appro | Date priate |
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| Q | AC | 5,396,506 | 03/07/95 | Ball | | | | |
| \$ | AD | 5,416,298 | 05/16/95 | Roberts | | | | |
| an' | AE | 5,430,816 | 07/04/95 | Furuya et al. | | | | |
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| | AM | 195 11 393 | 02/10/96 | Germany | | <u> </u> | | |
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| | AD | 5,416,298 | 05/16/95 | Roberts | | | <u> </u> | |
| | AE | 5,430,816 | 07/04/95 | Furuya et al. | | ļ | | |
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| 8 | AW | "Laser in der Druckin | "Laser in der Druckindustire"; Werner Hülsbusch, Konstanz; Seite 431; Abb. 7-28 etc. | | | | | |
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EXHIBIT

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IN THE UNITED STATES ELECTED OFFICE

OF THE UNITED STATES PATENT AND TRADEMARK OFFICE

UNDER THE PATENT COOPERATION TREATY-CHAPTER II

DRAWING CORRECTION LETTER

APPLICANT:

HEINRICH JÜRGENSEN

DOCKET NO: P01,0032

SERIAL NO:

GROUP ART UNIT:

EXAMINER:

10 INTERNATIONAL APPLICATION NO: PCT/DE99/02721

INTERNATIONAL FILING DATE: 01 September 1999

INVENTION: "LASER RADIATION SOURCE"

Assistant Commissioner for Patents Washington, D.C. 20231

15 Sir:

5

Please amend Figs. 1, 2, 3, 4, 4b, 4c, 8, 26, 28,29, 32, 33, 35, 36, 37, 38, 39, 39a, and 41 as indicated in red on the attached drawing copies.

Respectfully submitted,

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Lut a Valu

(Req.No. 27,841)

Brett A. Valiquet Schiff Hardin & Waite Patent Department

6600 Sears Tower

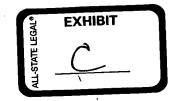
Chicago, Illinois 60606

(312) 258-5786

Attorneys for Applicant

CUSTOMER NO. 26574

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CERTIFICATE OF MAILING BY "EXPRESS MAIL"

"Express Mail" Mailing Label Number EL655301655US

Date of Deposit: March 8, 2001

I hereby certify that this CORRESPONDENCE IS BEING DEPOSITED WITH THE United States Postal "Express Mail Post Office To Addressee" SERVICE UNDER 37 CFR 1.10(c) on the date indicated above and is addressed to:

BOX PCT Hon. Assistant Commissioner for Patents Washington, D. C. 20231

Case Number: P01,0032

International Application No.

PCT/DE99/02721

International Filing Date

01 September 1999

Priority Date Claimed 08 September 1998

Title: "LASER RADIATION SOURCE"

Applicants: Heinrich JÜRGENSEN

Enclosed are the following documents:

PTO 1390 in duplicate;

International Application as filed

English Translation

Substitute Specification

Marked up copy of Substitute Specification

Information Disclosure Statement, References, Search Report, Form 1449

Preliminary Amendment

Drawing Correction Letter

Thirty-Nine sheets of drawings

Translation of Drawings

Unexecuted Declaration

\$1894.00

Postcard.

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Signature of Person Mailing Documents and Fee



United States Patent and Trademark Office



EXHIBIT

EXHIBIT

UNITED STATES DEPARTMENT United States Patent and Traden Address: COMMISSIONER OF PATENT Washington, D.C. 20231 www.ushio.sov

FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. FILING DATE APPLICATION NO. 5122 P010032 Heinrich Jurgensen 09/14/2001 09/786,742 01/30/2003 26574 **EXAMINER SCHIFF HARDIN & WAITE** 6600 SEARS TOWER MENEFEE, JAMES A 233 S WACKER DR CHICAGO, IL 60606-6473 PAPER NUMBER ART UNIT 2828

Please find below and/or attached an Office communication concerning this application or proceeding.

·

DATE MAILED: 01/30/2003

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FEB 0 5 2003

SCHIFF HARDIN & WAITE
U.S. PATENT DEPT.

| ~ ~ | Application No. | Applicant(s) | | | | | | | |
|--|---|---|--|--|--|--|--|--|--|
| | 09/786,742 | JURGENSEN, HEINRICH | | | | | | | |
| Office Action Summary | Examiner | Art Unit | | | | | | | |
| | James A. Menefee | 2828 | | | | | | | |
| The MAILING DATE of this communication a | The MAILING DATE of this communication appears on the cover sheet with the correspondence address | | | | | | | | |
| A SHORTENED STATUTORY PERIOD FOR REF THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, at If NO period for reply is specified above, the maximum statutory per - Failure to reply within the set or extended period for reply will, by sta - Any reply received by the Office later than three months after the may earned patent term adjustment. See 37 CFR 1.704(b). Status | N. 1.136(a). In no event, however, may a repreply within the statutory minimum of thirty od will apply and will expire SIX (6) MONTItute, cause the application to become ABA | oly be timely filed (30) days will be considered timely. HS from the mailing date of this communication. NDONED (35 U.S.C. § 133). | | | | | | | |
| 1) Responsive to communication(s) filed on _ | <u> </u> | | | | | | | | |
| 2a) ☐ This action is FINAL . 2b) ☑ | This action is non-final. | | | | | | | | |
| 3) Since this application is in condition for allo closed in accordance with the practice und Disposition of Claims | owance except for formal matte er <i>Ex parte Quayle</i> , 1935 C.D | ers, prosecution as to the merits is . 11, 453 O.G. 213. | | | | | | | |
| 4) Claim(s) 337-407 is/are pending in the appl | ication. | | | | | | | | |
| 4a) Of the above claim(s) is/are withd | rawn from consideration. | | | | | | | | |
| 5) Claim(s) is/are allowed. | | Pareto | | | | | | | |
| 6)⊠ Claim(s) <u>337-407</u> is/are rejected. | | DALII IB | | | | | | | |
| 7) Claim(s) is/are objected to. | | SUPERVISORY PATENT EXAMINER | | | | | | | |
| 8) Claim(s) are subject to restriction and | d/or election requirement. | TECHNOLOGY CENTER 2800 | | | | | | | |
| Application Papers | | | | | | | | | |
| 9) The specification is objected to by the Exami | ner. | | | | | | | | |
| 10)⊠ The drawing(s) filed on 14 September 2001 i | s/are: a)□ accepted or b)⊠ ob | jected to by the Examiner. | | | | | | | |
| Applicant may not request that any objection to | | | | | | | | | |
| 11) The proposed drawing correction filed on 14 | <u>September 2001</u> is: a)⊠ appr | roved b) disapproved by the Examiner. | | | | | | | |
| If approved, corrected drawings are required in | reply to this Office action. | • | | | | | | | |
| 12) The oath or declaration is objected to by the | Examiner. | | | | | | | | |
| Priority under 35 U.S.C. §§ 119 and 120 | | | | | | | | | |
| 13) Acknowledgment is made of a claim for fore | ign priority under 35 U.S.C. § | 119(a)-(d) or (f). | | | | | | | |
| a)⊠ All b)☐ Some * c)☐ None of: | | | | | | | | | |
| 1.☐ Certified copies of the priority docume | ents have been received. | | | | | | | | |
| 2. Certified copies of the priority docume | ents have been received in Ap | plication No | | | | | | | |
| 3. Copies of the certified copies of the praphication from the International to See the attached detailed Office action for a life. | Bureau (PCT Rule 17.2(a)). | | | | | | | | |
| 14) Acknowledgment is made of a claim for dome | stic priority under 35 U.S.C. § | 119(e) (to a provisional application). | | | | | | | |
| a) The translation of the foreign language p | | | | | | | | | |
| Attachment(s) | | | | | | | | | |
| 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s | 5) Notice of Inf | ummary (PTO-413) Paper No(s) formal Patent Application (PTO-152) | | | | | | | |
| U.S. Patent and Trademark Office PTO-326 (Rev. 04-01) Office | Action Summary | Part of Paper No. 9 | | | | | | | |

Application/Control Number: 09/786,742

Art Unit: 2828

DETAILED ACTION

Response to Amendment

In response to the two preliminary amendments, the second substitute specification and abstract has been entered. Claims 1-336 are cancelled and claims 337-407 are added. Claims 337-407 are currently pending.

Drawings

The proposed drawing correction and/or the proposed substitute sheets of drawings, filed on 14 September 2001 have been approved. The substitute drawing pages incorporating these changes were received on 14 September 2002. These drawings are acceptable except as follows:

The drawings are objected to because of the following:

In Fig. 1, "radiation" is misspelled.

In Fig. 6 "coolant" is misspelled.

Figures 2 and 2a should be designated by a legend such as --Prior Art-- because only that which is old is illustrated. See MPEP § 608.02(g).

A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

Claim Objections

Claim 395 is objected to under 37 CFR 1.75(c), as being of improper dependent form for failing to further limit the subject matter of a previous claim. Applicant is required to cancel the



UNITED STATES PATENT AND TRADEMARK OFFICE



UNITED STATES DEPARTMENT O United States Patent and Trademar Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

| APPLICATION NO. | N NO. FILING DATE FIRST NAMED INVENTOR | | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------------------|--|-------------------------------|-------------------------|------------------|
| 09/786,742 09/14/2001 | | 09/14/2001 Heinrich Jurgensen | | 5122 |
| 26574 7 | 590 08/13/2003 | | | |
| SCHIFF HAF | RDIN & WAITE | | EXAM | INER |
| 6600 SEARS T 233 S WACKE | ER DR | | MENEFEE, | JAMES A |
| CHICAGO, IL | 60606-6473 | | ART UNIT | PAPER NUMBER |
| | • | | 2828 | |
| | | | DATE MAILED: 08/13/2003 | . |

Please find below and/or attached an Office communication concerning this application or proceeding.



AUG 1 9 2003

SCHIFF HARDIN & WAITE U.S. PATENT DEPT.

| | | A TO |
|---|---|---|
| | Application No. | Applicant(s) |
| | 09/786,742 | JURGENSEN, HEINRICH |
| Office Action Summary | Examiner | Art Unit |
| | James A. Menefee | 2828 |
| The MAILING DATE of this communication | appears on the cover sheet wi | th the correspondence address - |
| Period for Reply A SHORTENED STATUTORY PERIOD FOR RE | DIVIS SET TO EYDIDE 2 M | ONTH(S) FROM |
| A SHORTENED STATUTORY PERIOD FOR RE THE MAILING DATE OF THIS COMMUNICATIO Extensions of time may be available under the provisions of 37 CFI after SIX (6) MONTHS from the mailing date of this communication If the period for reply specified above is less than thirty (30) days, a If NO period for reply is specified above, the maximum statutory pe Failure to reply within the set or extended period for reply will, by st Any reply received by the Office later than three months after the meamed patent term adjustment. See 37 CFR 1.704(b). Status | N. R 1.136(a). In no event, however, may a re. I reply within the statutory minimum of thirt, indo will apply and will expire SIX (6) MON atute, cause the application to become AB | eply be timely filed y (30) days will be considered timely. THS from the mailing date of this communication. ANDONED (35 U.S.C. § 133). |
| 1) Responsive to communication(s) filed on | 30 June 2003 . | |
| , | This action is non-final. | |
| Since this application is in condition for all closed in accordance with the practice uncondition. | owance except for formal mat der <i>Ex parte Quayle</i> , 1935 C.I | ters, prosecution as to the merits is D. 11, 453 O.G. 213. |
| Disposition of Claims | | |
| 4)⊠ Claim(s) <u>337-421</u> is/are pending in the app | olication. | |
| 4a) Of the above claim(s) is/are with | drawn from consideration. | · |
| 5) Claim(s) is/are allowed. | | • |
| 6)⊠ Claim(s) <u>337-421</u> is/are rejected. | | |
| 7) Claim(s) is/are objected to. | | |
| 8) Claim(s) are subject to restriction ar Application Papers | nd/or election requirement. | |
| 9)☐ The specification is objected to by the Exam | niner. | |
| 10) The drawing(s) filed on is/are: a) a | ccepted or b) objected to by the | ne Examiner. |
| Applicant may not request that any objection t | | |
| 11) The proposed drawing correction filed on | | isapproved by the Examiner. |
| If approved, corrected drawings are required in | | |
| 12) The oath or declaration is objected to by the | Examiner. | |
| Priority under 35 U.S.C. §§ 119 and 120 | | |
| 13) Acknowledgment is made of a claim for for | eign priority under 35 U.S.C. § | § 119(a)-(d) or (f). |
| a)⊠ All b)□ Some * c)□ None of: | · | |
| Certified copies of the priority docum | | |
| 2. Certified copies of the priority docum | | |
| 3. Copies of the certified copies of the papplication from the International * See the attached detailed Office action for a | Bureau (PCT Rule 17.2(a)). | |
| 14) Acknowledgment is made of a claim for dom | | |
| a) ☐ The translation of the foreign language 15)☒ Acknowledgment is made of a claim for dom | provisional application has be | een received. |
| Attachment(s) | py unda. da a.d.a. | , |
| 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper Not | 5) Notice of I | Summary (PTO-413) Paper No(s) nformal Patent Application (PTO-152) |
| | | |

U.S. Patent and Trademark Office PTO-326 (Rev. 04-01)

Office Action Summary

Part of Paper No. 11

Application/Control Number: 09/786,742

Art Unit: 2828

DETAILED ACTION

Response to Amendment

In response to the amendment filed 30 June 2003, claims 337, 343, 383, 386, 403, and 406-407 are amended, and claims 408-421 added. Claims 337-421 are currently pending.

Drawings

The corrected or substitute drawings were received on 30 June 2003. These drawings are acceptable.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 409-410 and 417-419 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 409 recites the limitation "said processing surface" in line 7. Claim 417 recites the same limitation in lines 7 and 10. There is insufficient antecedent basis for this limitation in these claims. Further, the term "The" at the start of claim 417 should be changed to "A".

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

BEST AVAILABLE COPY

UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

PATENT NO.: 6,8

6,888,853 B1

DATED

May 3, 2005

INVENTOR(S)

: Heinrich Jürgensen

It is certified that errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

In the Patent cover sheet at col. 1 after "References Cited" through col. 2 and before "Primary Examiner – Don Wong" substitute the following to correct errors in the listing of references:

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| 3,931,458 A | * | 1/1976 | Dini | 358/3.29 |
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| 6,283,022 B1 | * | 9/2001 | Kamen et al | 101/129 |

MAILING ADDRESS OF SENDER: Schiff Hardin LLP- Brett A. Valiquet 6600 Sears Tower – Patent Department Chicago, IL 60606

PATENT NO.

6,888,853 B1

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This collection of information is required by 37 CFR 1.322, 1.323, and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION (Page 2)

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Optimization of micro channel heat sinks for high power diode laser in copper technology; SPIE Proceedings Vol 3097, 1997

1998 Semiconductor Laser Product Catalog-SDL Copyright 1997 SDL, Inc. pp. 40-45

* cited by examiner

MAILING ADDRESS OF SENDER:

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6600 Sears Tower - Patent Department

Chicago, IL 60606

PATENT NO.

6,888,853 B1

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Approved for use through 04/30/2007. 0MB 0651-0033

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(Also Form PTO-1050)

UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION (Page 3)

For drawing Figures 1, 4, 4b, 4c, 8, 29, 32, 33, 35, 36, 37 and 41, legends are added as shown on the attached drawing sheets.

In the drawing sheets 1 through 39, replace drawing sheets 1, 3, 5, 6, 11, 24, 25, 26, 28, 29, 31, and 34 with the attached some numbered drawing sheets. This corrects errors in the legends.

MAILING ADDRESS OF SENDER: Schiff Hardin LLP- Brett A. Valiquet 6600 Sears Tower – Patent Department Chicago, IL 60606

PATENT NO.

6,888,853 B1

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If you need assistance in completing the form, call 1-800-PTO-9 199 and select option ${\bf 2.}$

CH1\4254333.1

PAY 25 Long



US006888853B1

(12) United States Patent Jürgensen

(10) Patent No.:

US 6,888,853 B1

(45) Date of Patent:

May 3, 2005

| (54) | LASER RADIATION SOURCE | | |
|------|-----------------------------------|--|---------------|
| (75) | Inventor: | Heinrich Jürgensen, Raiso | lorf (DE) |
| (73) | Assignee: | Hell Gravure Systems GmbH, Kiel (DE) | |
| (*) | Notice: | Subject to any disclaimer, the patent is extended or adjust U.S.C. 154(b) by 0 days. | |
| (21) | Appl. No.: | 09/786,742 | |
| (22) | PCT Filed | Sep. 1, 1999 | |
| (86) | PCT No.: | PCT/DE99/02721 | |
| | § 371 (c)(1 (2), (4) Da | .), te: Sep. 14, 2001 | |
| (87) | PCT Pub. | No.: WO00/13839 | |
| | PCT Pub. | Date: Mar. 16, 2000 | |
| (30) | Foreign Application Priority Data | | |
| Sep | o. 8, 1998 | (DE) | 198 40 926 |
| (51) | Int. Cl. ⁷ | H01S 3/06 7 G03F 7/00 |); B41J 2/435 |
| (52) | U.S. Cl | | 72/9; 372/24; |
| | 101/1 | .50; 101/153; 430/269; 430/3 347/224; 347/233; 347/ | |
| (58) | | earch 372 | |
| | | 372/69; 101/150, 153; 430/2 | |
| | | 347/224, 2 | 233, 238, 241 |
| (56) | | References Cited | |

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| 6,283,022 B1 | | Kamen et al 101/129 |

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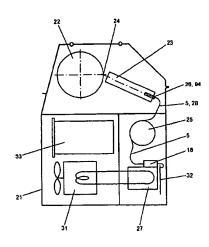
* cited by examiner

Primary Examiner—Don Wong
Assistant Examiner—James Menefee
(74) Attorney, Agent, or Firm—Schiff Hardin LLP

57) ABSTRACT

A system and method for selectively process material on a processing surface of a printing form to create a fine structure or pattern for images or text. At least one fiber laser comprising a pump source and a laser fiber is provided. A laser gun is mounted adjacent the printing form and has at least a focusing optics. The fiber laser outputs a laser beam which is diffraction-limited to permit the focusing optics to focus the laser beam onto the processing surface of the printing form as a spot having a spot size sufficiently small to process the processing surface to create the fine structure or pattern images or text.

296 Claims, 39 Drawing Sheets



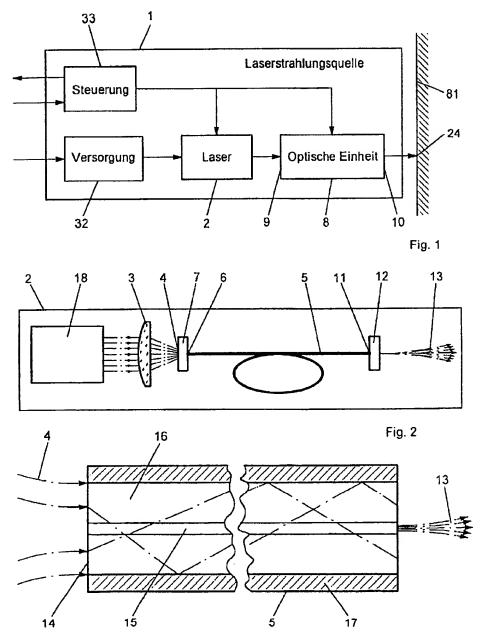


Fig. 2a

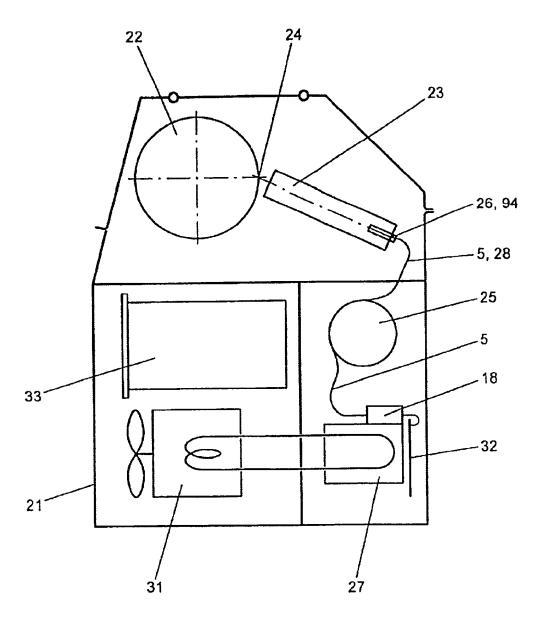
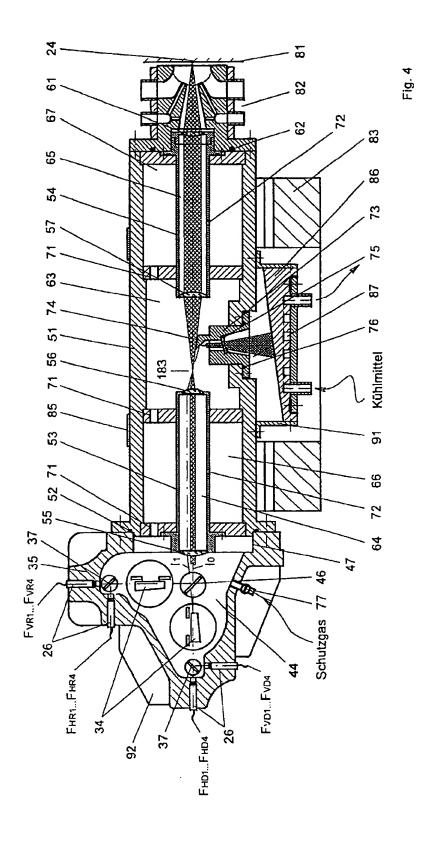
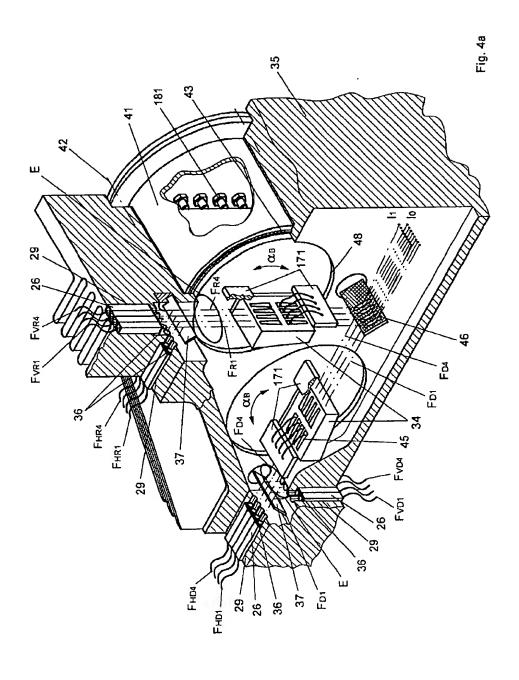
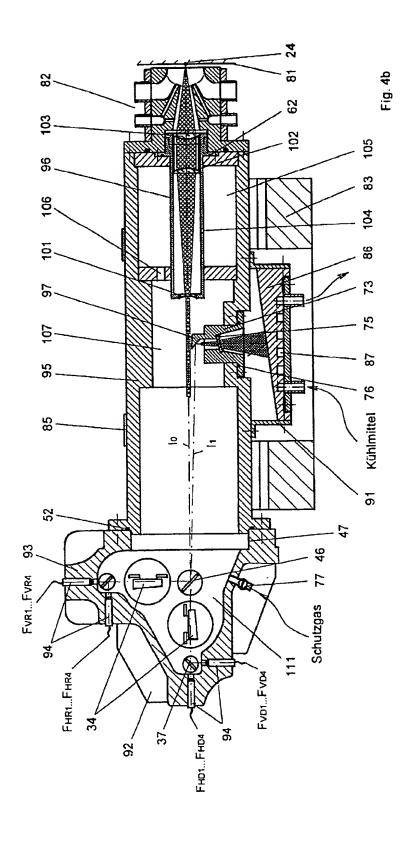
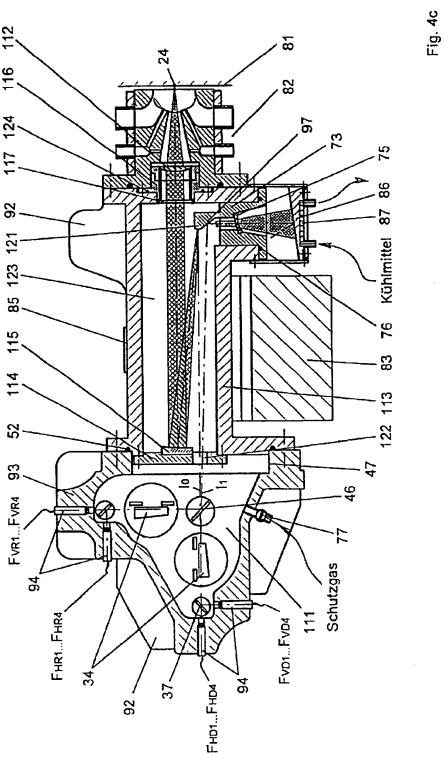


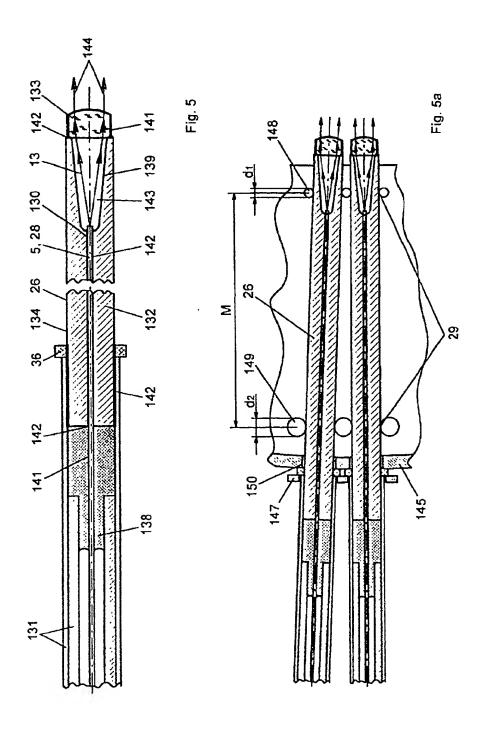
Fig. 3

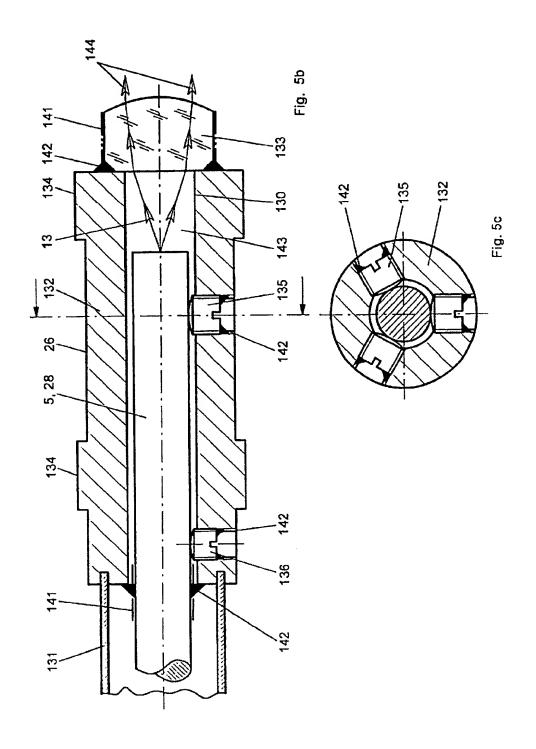


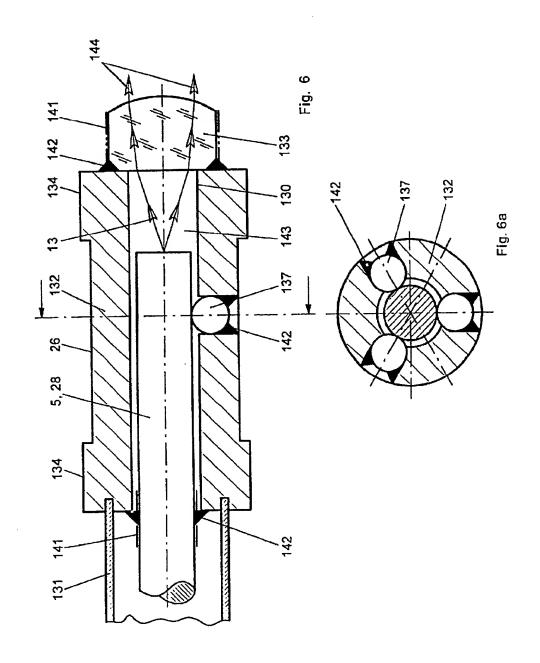




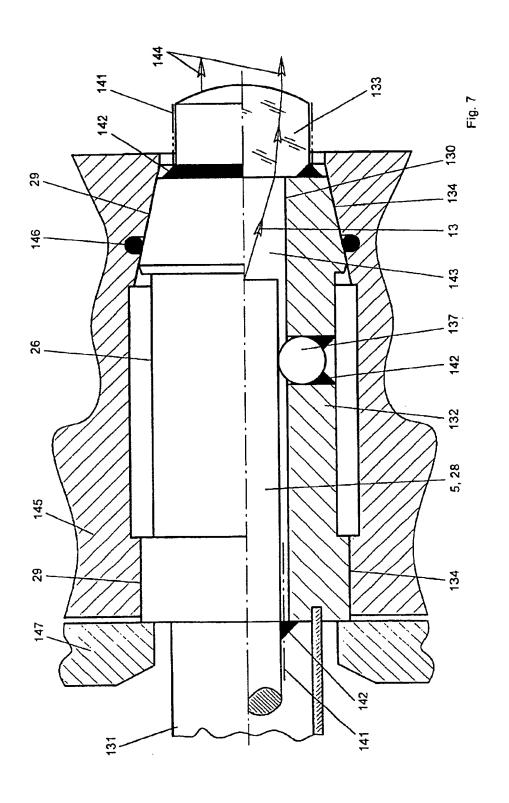


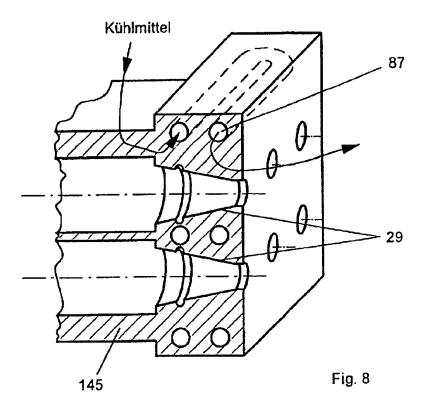












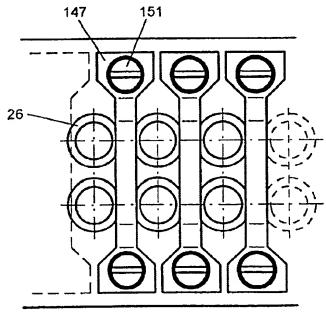
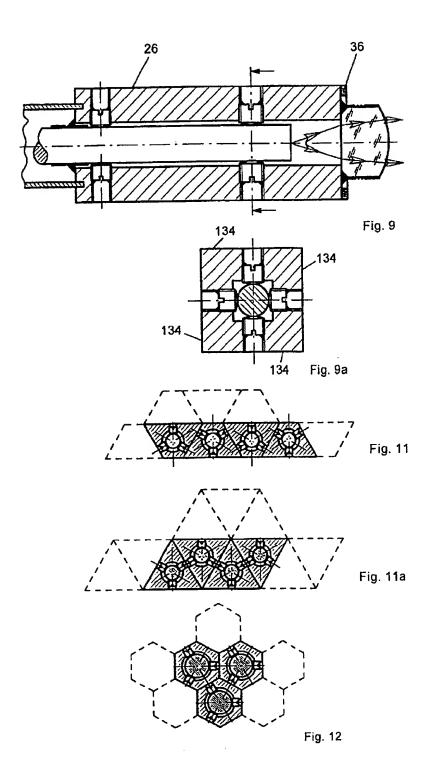
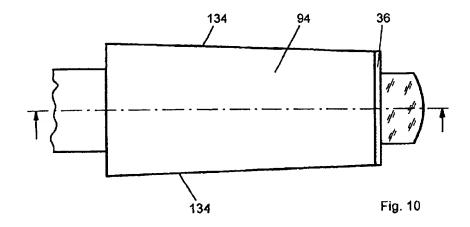


Fig. 8a





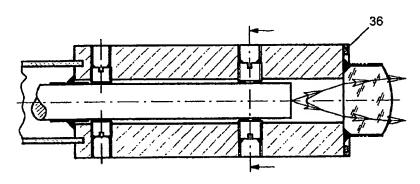


Fig. 10a

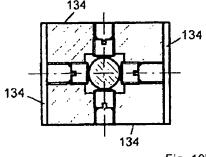
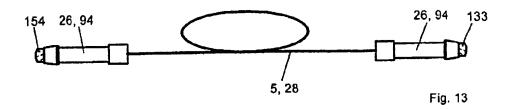
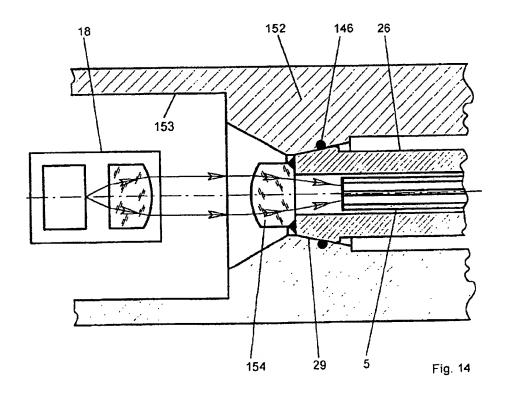


Fig. 10b





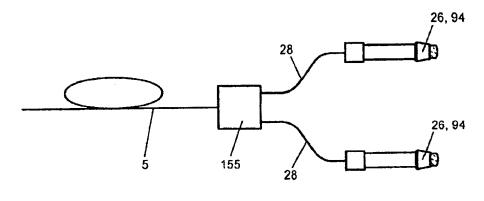
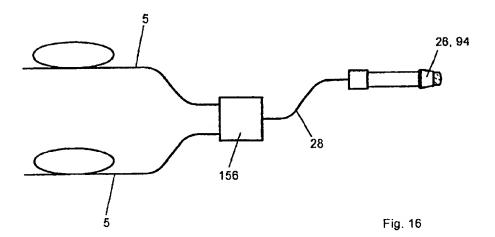


Fig. 15



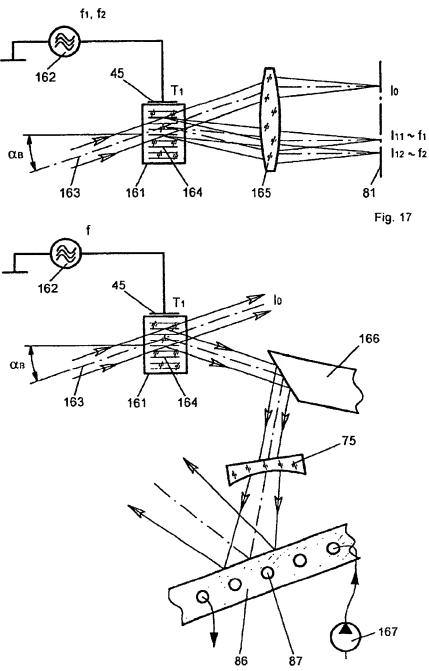
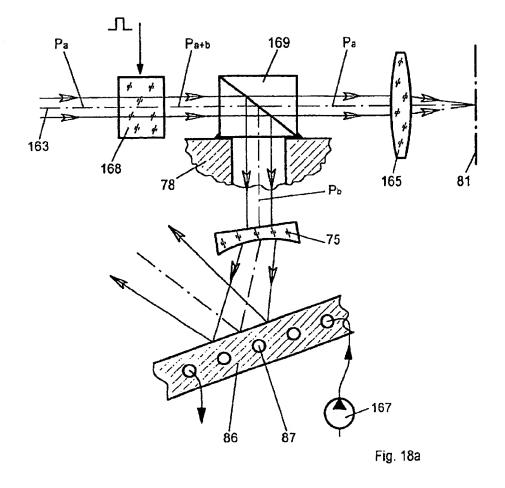
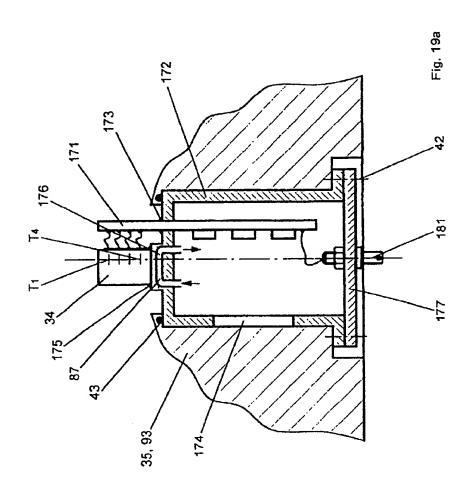
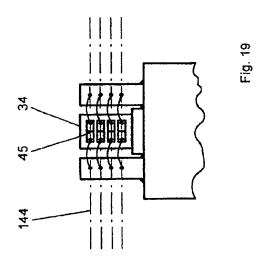
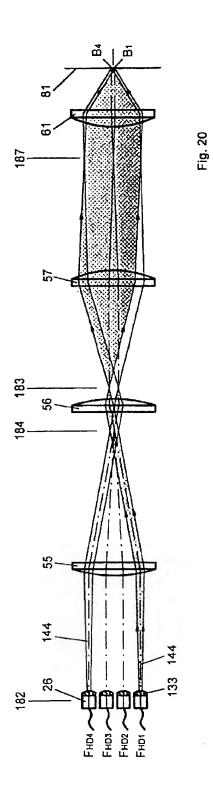


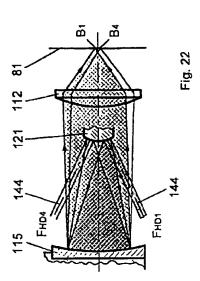
Fig. 18

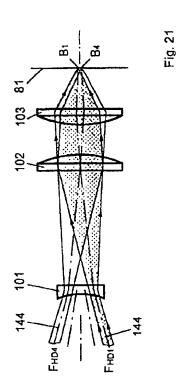


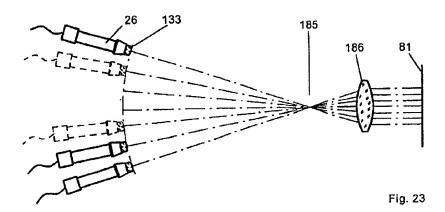












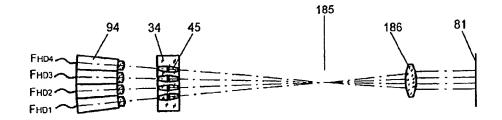


Fig. 24

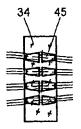
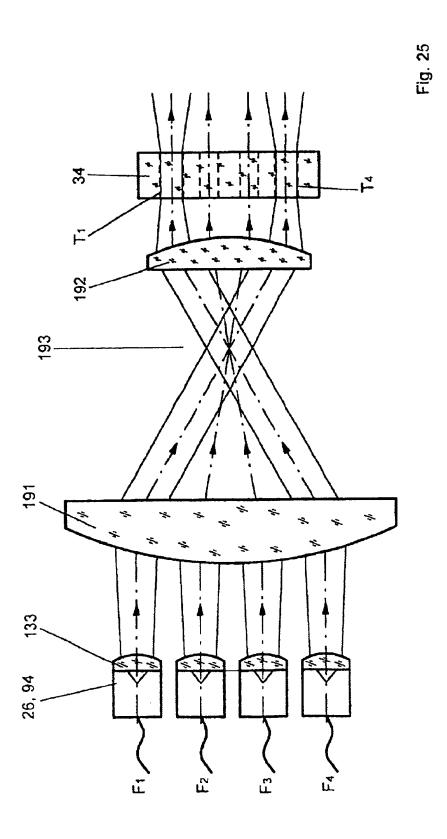
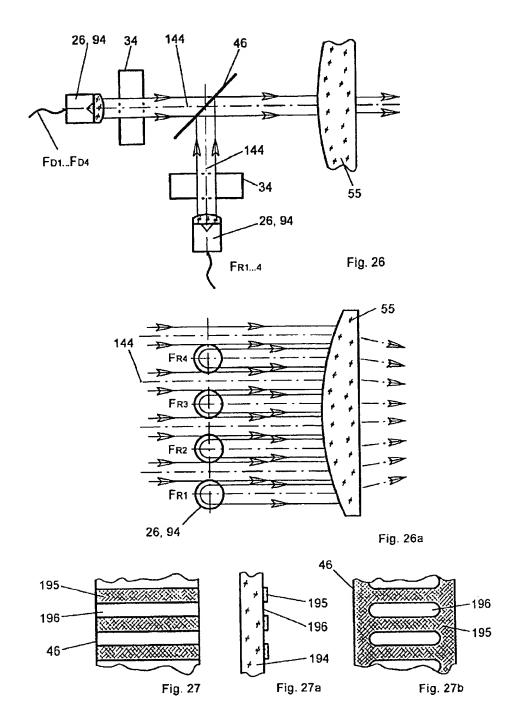


Fig. 24a





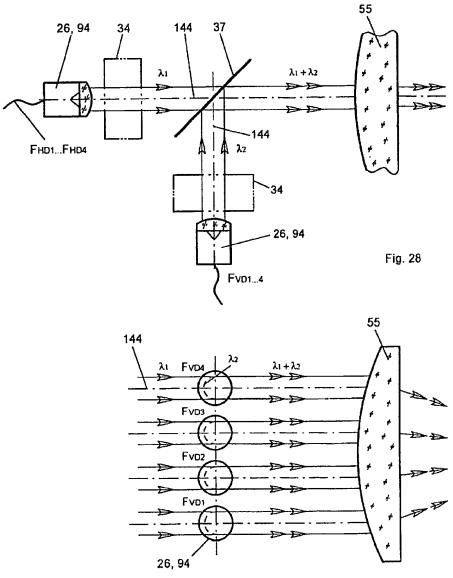
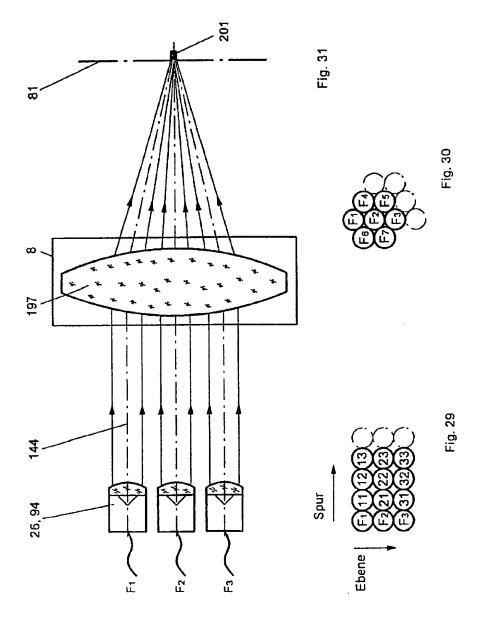
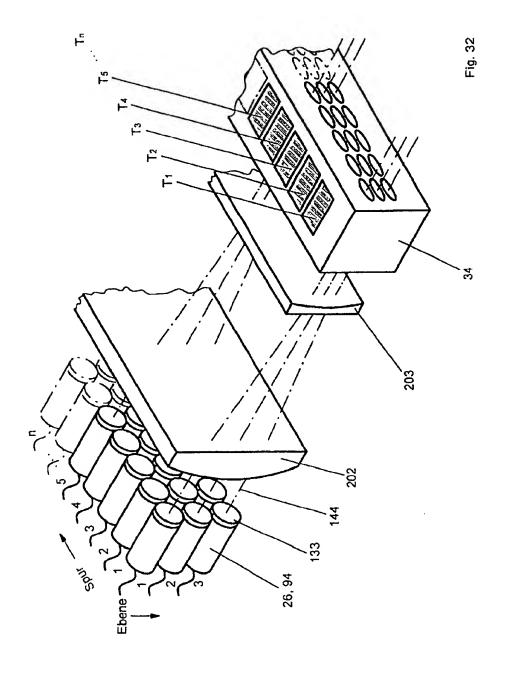
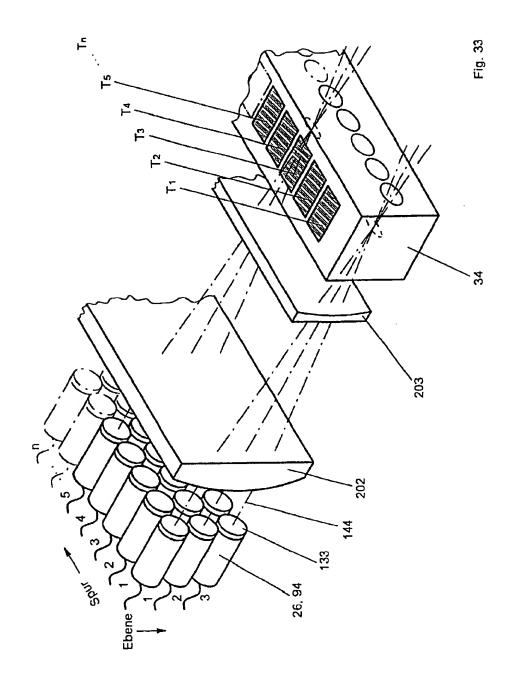


Fig. 28a







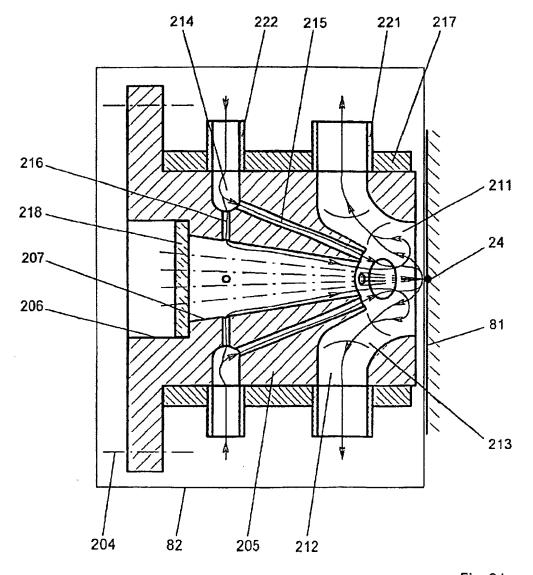
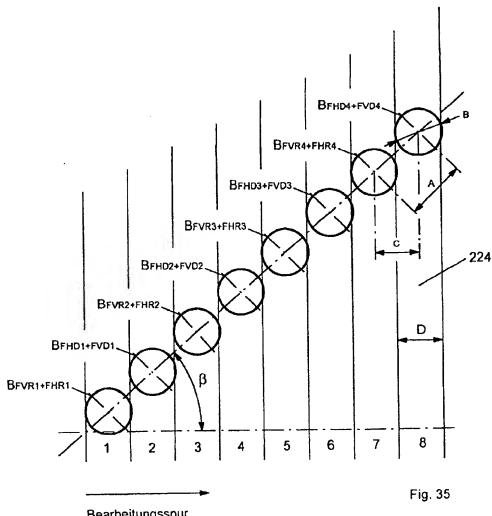
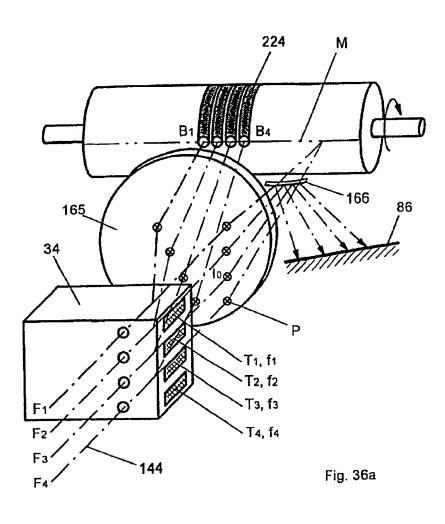
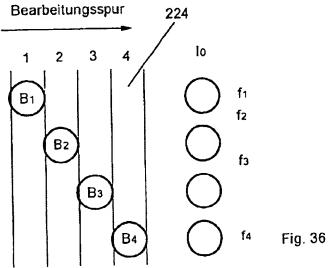


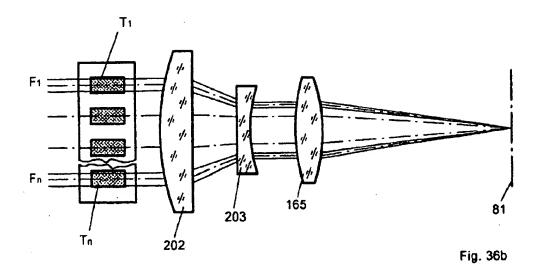
Fig. 34



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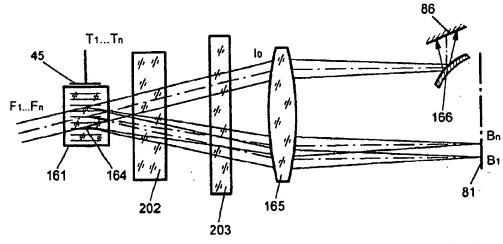


Fig. 36c

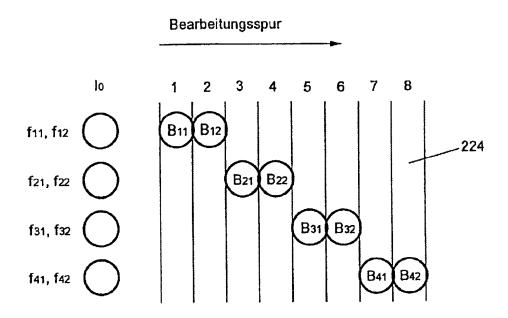
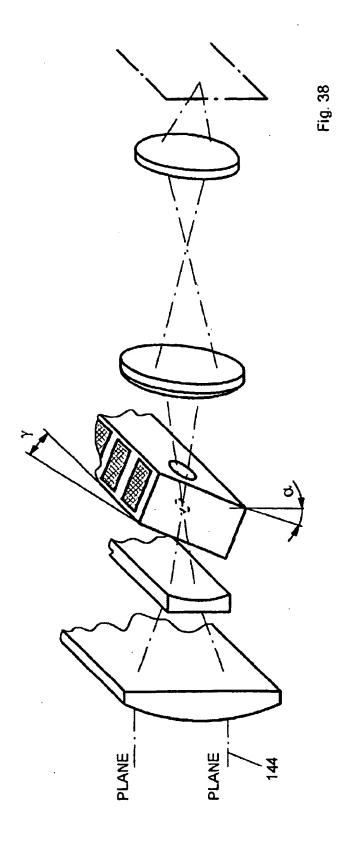


Fig. 37



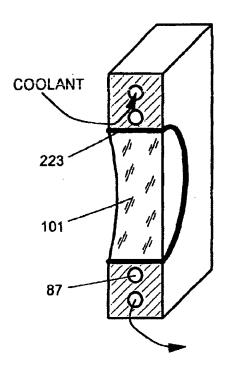


Fig. 39

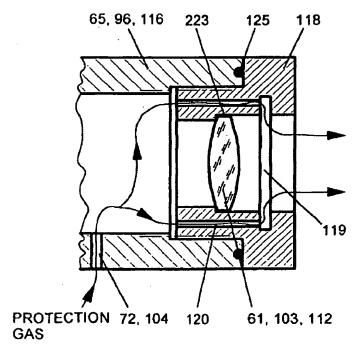


Fig. 39a

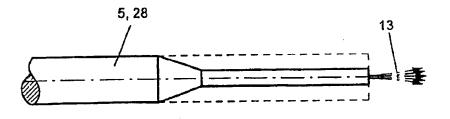


Fig. 40

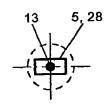


Fig. 40a

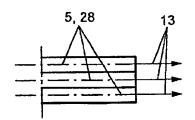
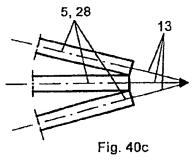
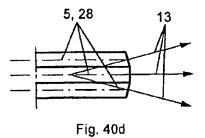
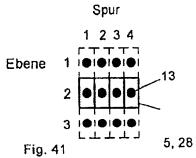
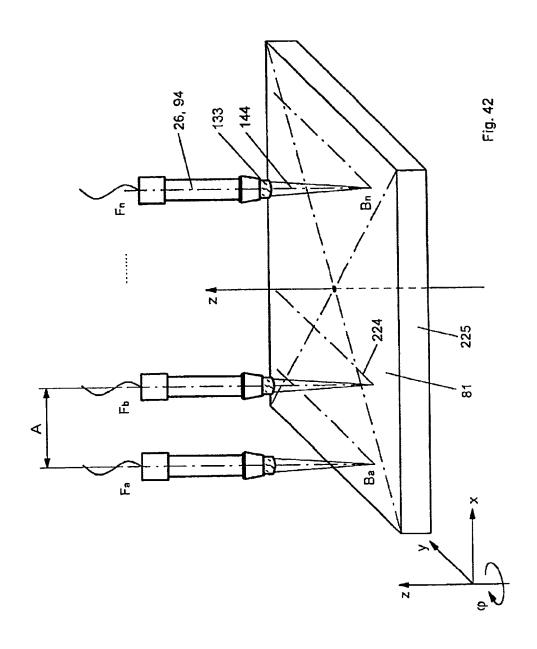


Fig. 40b











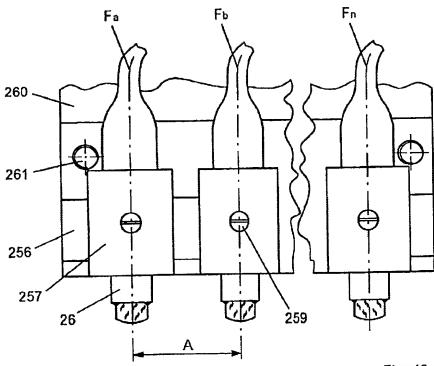


Fig. 42a

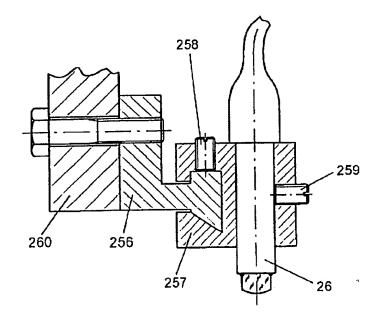
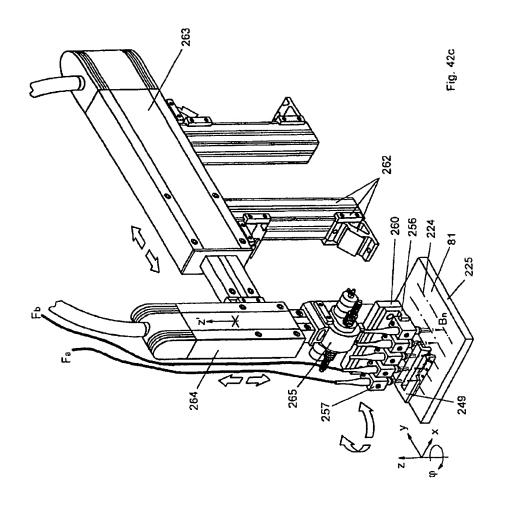
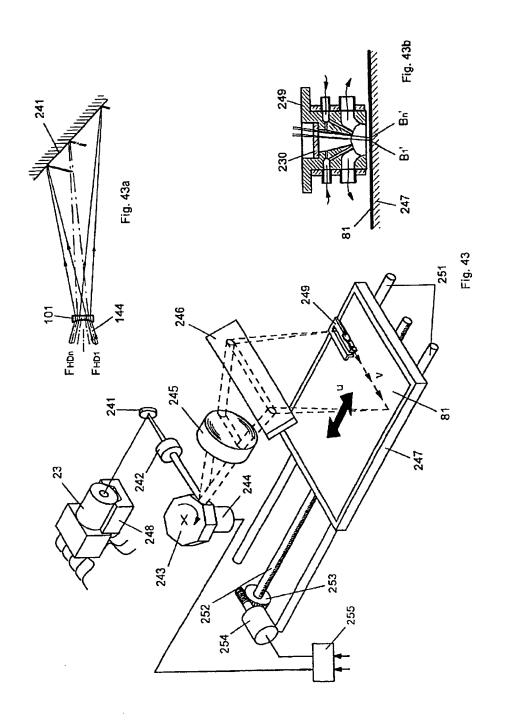
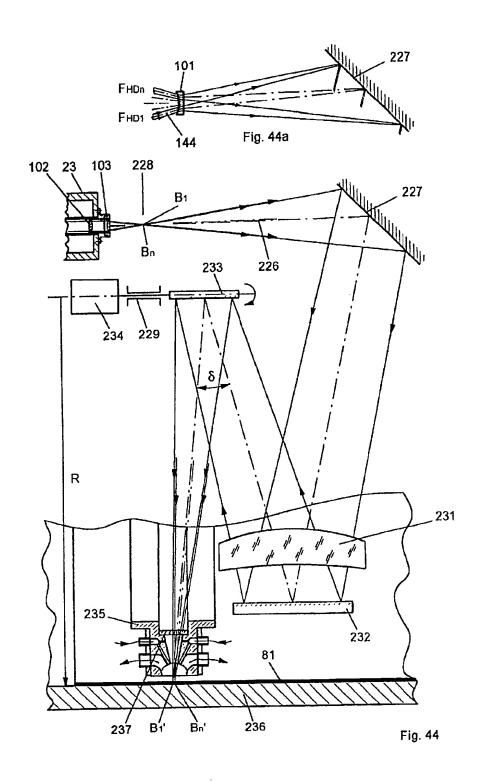


Fig. 42b









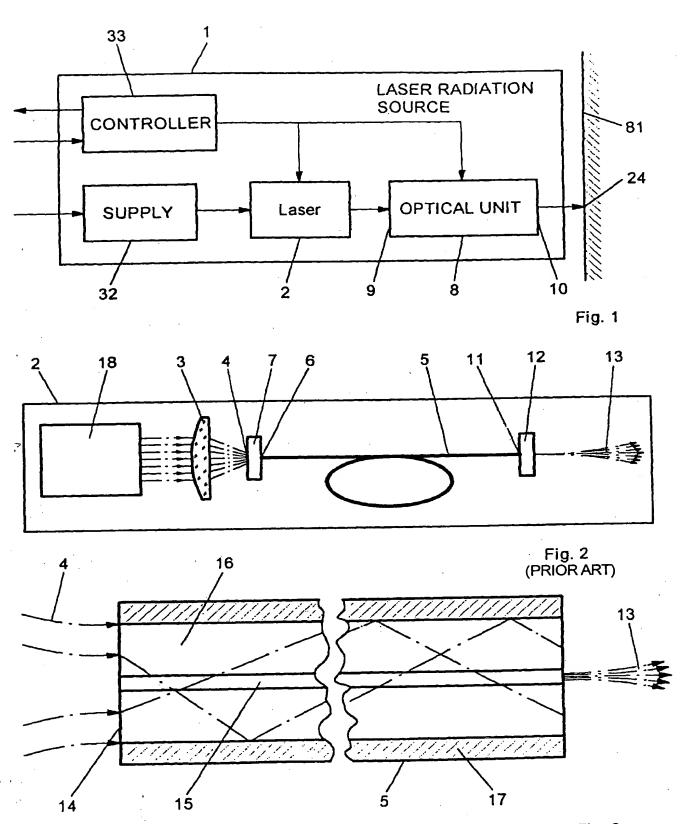


Fig. 2a (PRIOR ART)

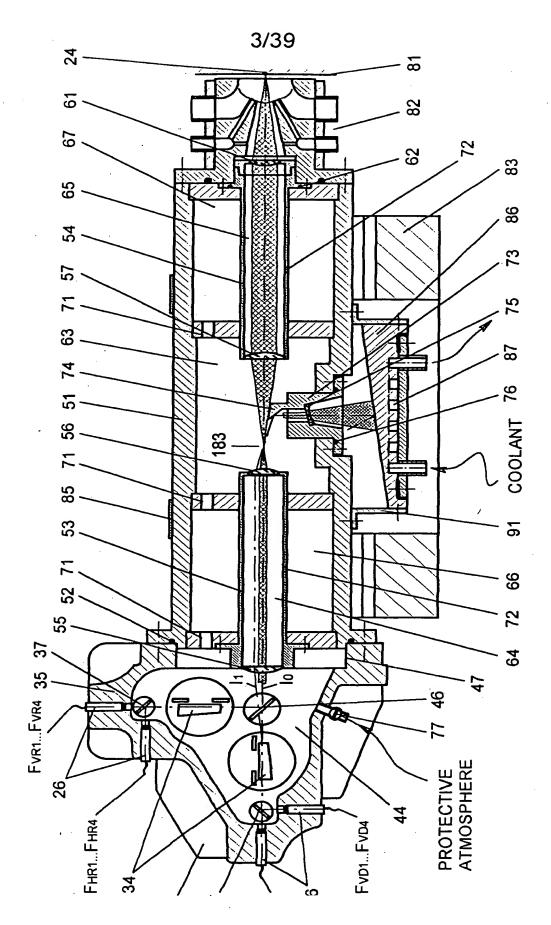
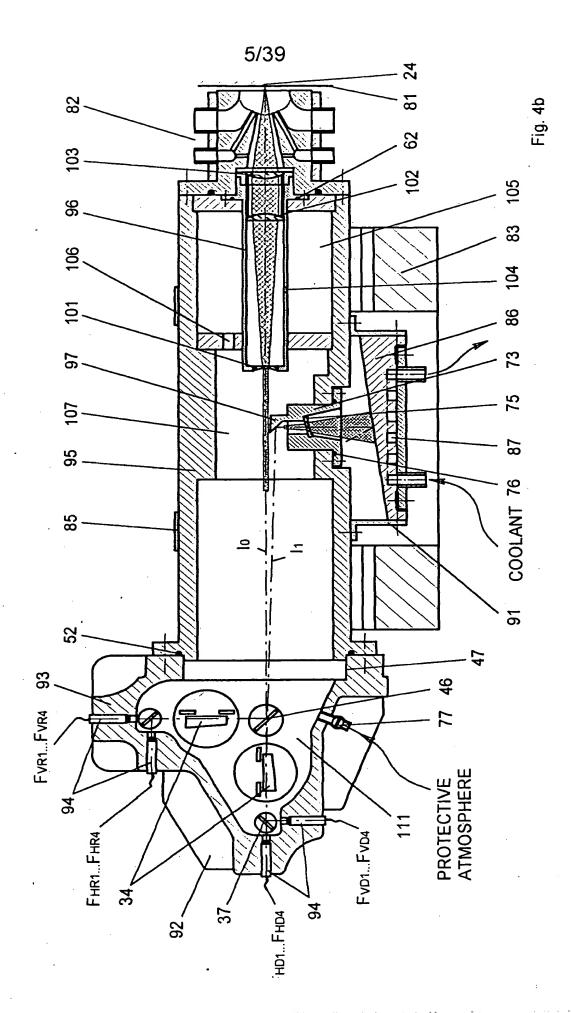
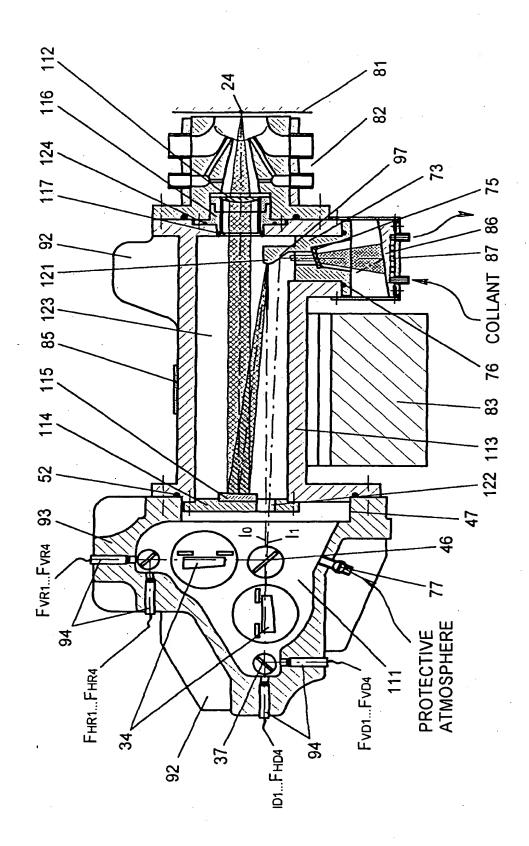


Fig. 4



* 7 2





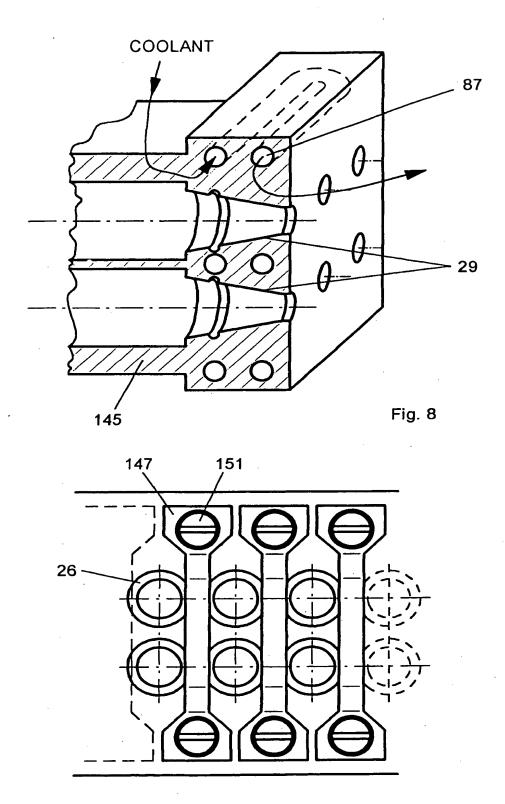
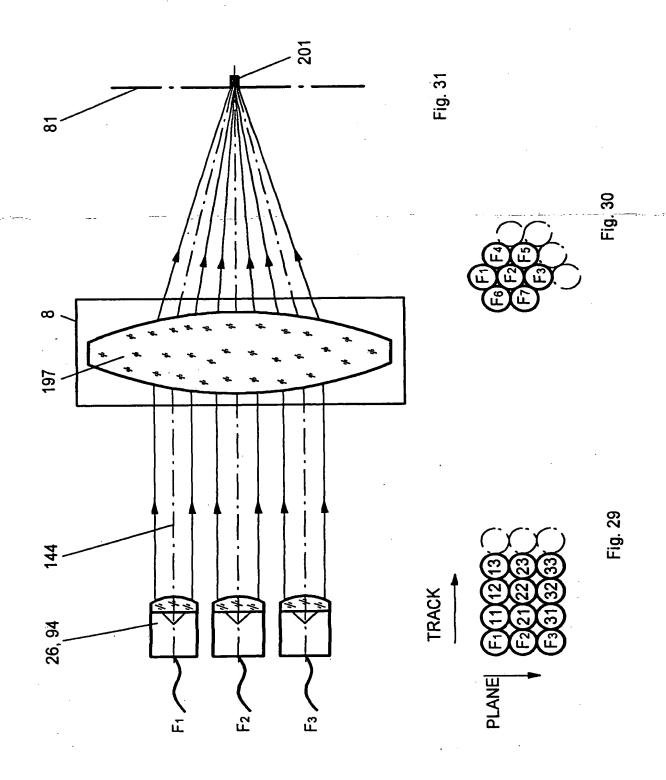
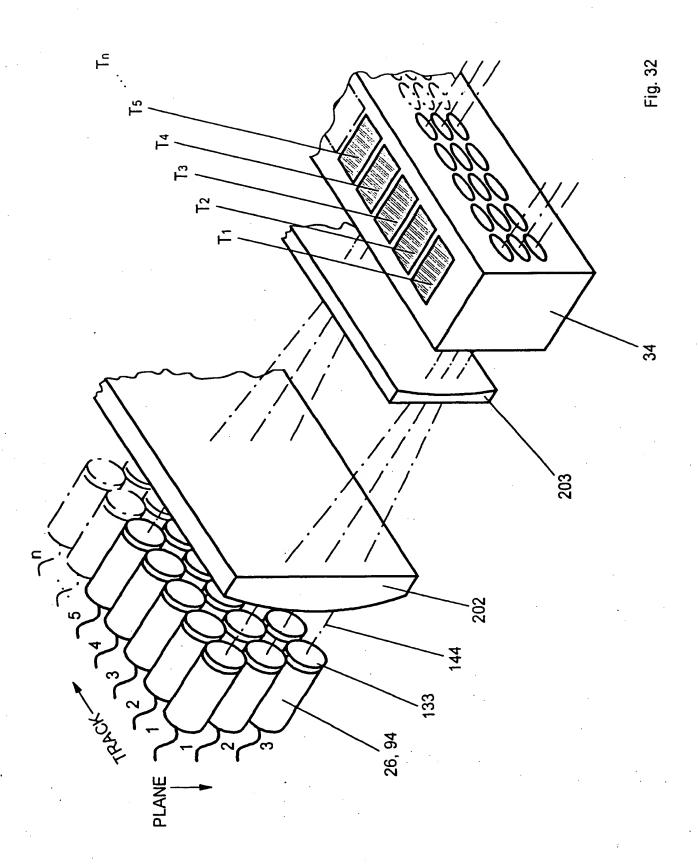
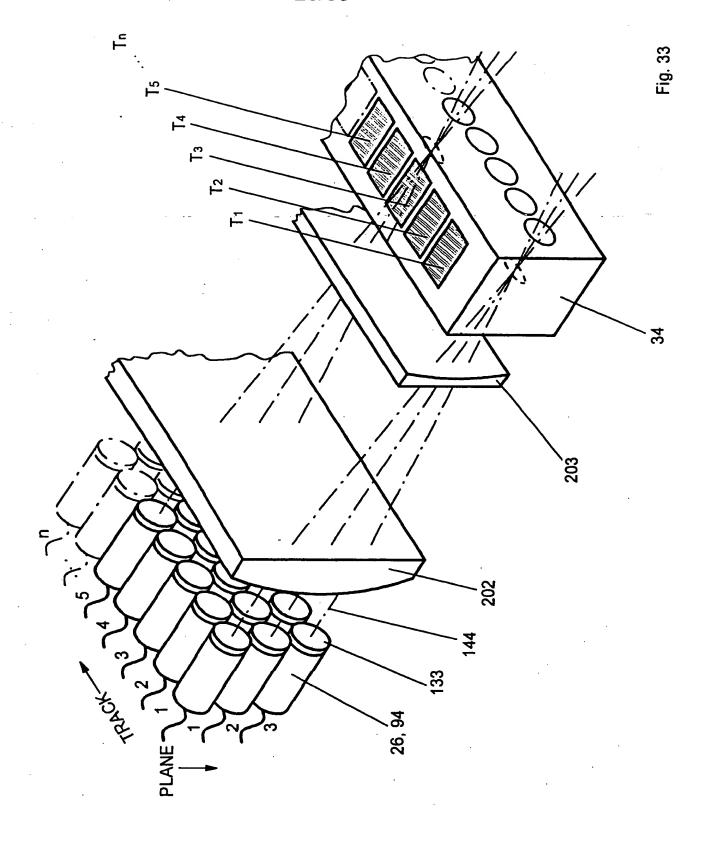
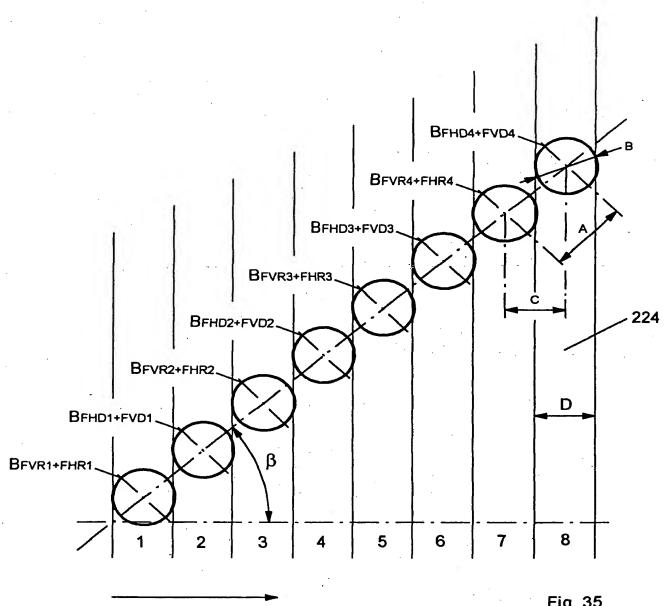


Fig. 8a



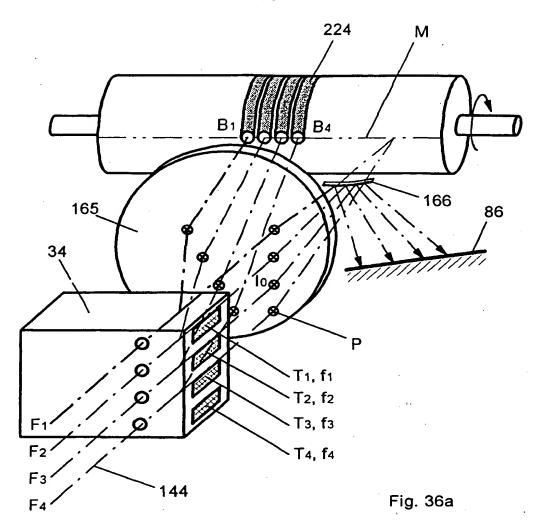


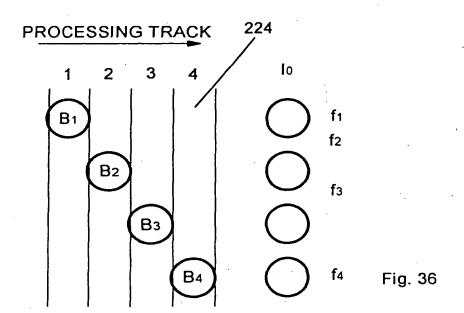




PROCESSING TRACK

Fig. 35





PROCESSING TRACK

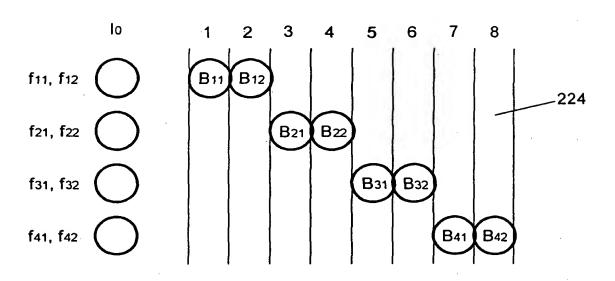


Fig. 37

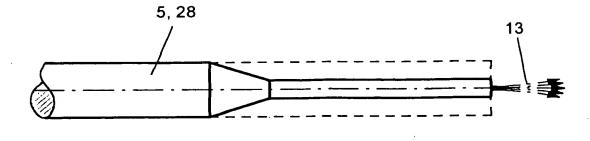


Fig. 40

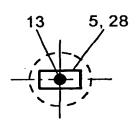


Fig. 40a

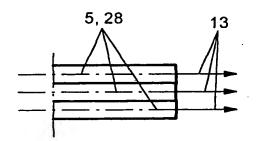


Fig. 40b

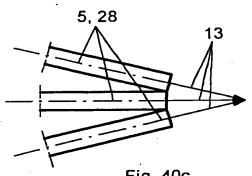


Fig. 40c

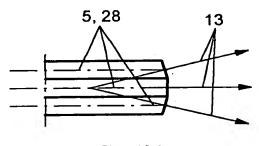
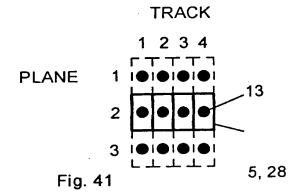


Fig. 40d



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